

## Yuba IRWMP – LCWD 07

### Project Short Form<sup>1</sup>

Please fill out the following information to the best of your ability/knowledge. Once the project has been received and a preliminary review completed, the project team will work with you to develop additional information.

#### Project Sponsor Contact Information

Lead Agency/Organization	Linda County Water District
Name of Primary Contact(s)	Brian Davis, General Manager
Mailing Address	1280 Scales Avenue, Marysville, CA 95901
Email Address	bdavis@lindawater.com
Phone (###) ###-####	530.743.2043
Project Partners/Collaborators	City of Marysville

#### General Project Information

Project Title	Wastewater System Improvement and Energy Efficiency
Project Total Budget, based on current knowledge	\$2,650,000
Project Funding Match, if any	\$0
Total Project Funding Request	\$2,650,000
Can a detailed cost estimate be provided upon request?	Yes
Project Location (map if available)	Yuba County/Marysville CA/Linda County Water District WWTP
City/Community	Linda and Marysville
Watershed/subwatershed	Feather River Watershed
Groundwater Basin	South Yuba Sub-Basin
Project Type (highlight in gray all that apply)	Conceptual Feasibility Study Study/Assessment Planning Engineering/Design Permitting CEQA/NEPA Facility Construction Restoration Monitoring Best Management Practices Acquisition Demonstration/Pilot Project

<sup>1</sup> Completed Project Short Forms should be sent via email to Katie Burdick at [admin@burdico.net](mailto:admin@burdico.net) **and** Elizabeth Herrera at [Elizabeth.herrera@fishsciences.net](mailto:Elizabeth.herrera@fishsciences.net)

## Project Description

Write a narrative briefly describing the project components and/or characteristics (maximum of 300 words).

Increase the efficacy and efficiency of LCWD's wastewater treatment system. This project will address near- and long-term impacts related to climate change and capacity needs through the following major components:

1. Aeration System Upgrades
  - a. Conduct a differential air delivery system investigation to determine and address issues related to disproportionate air flows to each of the plant's activated sludge basins.
  - b. Replace existing blower to more effectively handle varying Dissolved Oxygen demands and reduce overall electrical costs due to oversized blowers.
2. Grit Removal Study
  - a. Conduct a study that analyzes and characterizes the plant's grit, and provides a recommendation for implementation of grit removal solutions
3. Solids Handling and Disposal Improvements
  - a. Purchase and installation of polymer injection system into solids transfer line
4. Flow Equalization/Emergency Storage
  - a. Design and construction of additional flow equalization/emergency storage

## I. Project Rationale/Issues Statement

Briefly describe the need for the project and the desired outcomes/deliverables (maximum of 200 words).

The wastewater treatment plant that serves these communities needs to be upgraded to accommodate the recent addition of Marysville's wastewater and the increased pressure caused by climate change, development and regulatory changes. Below is a description of the need for the project and desired outcome for each of the project's tasks.

1. Aeration System Upgrades
  - a. Increase operational efficiency of system and lower economic impact of blower system due to high energy consumption
2. Grit Removal Study
  - a. Grit removal at the plant will extend the useful life of existing assets, increase digester capacity, and increase methane production
3. Solids Handling and Disposal Improvements
  - a. Improves solids disposal and handling by reducing total solids drying time and increasing solids storage availability in response to an increase in solids from processing Marysville's sewage flows and in response to SB1383
4. Flow Equalization/Emergency Storage
  - a. Improve the plant's ability to handle high and variable flows due to increased frequency and intensity of high-precipitation events such as atmospheric rivers (cited in the IRWMP).